## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1-31. (Canceled)
- 32. (Currently Amended) A method of cleaning a wafer comprising: spinning a wafer <a href="https://example.com/harmonismes.com

after exposing said wafer to said etchant or cleaning chemical and prior to dispensing DI DeIonized (DI) water on said etchant or cleaning chemical covered wafer exposing said <u>frontside of said</u> spinning wafer to a liquid or vapor having a lower surface tension than water; and

after exposing said wafer to said liquid or vapor having a lower surface tension than water, rinsing said <u>frontside of said</u> wafer with DI water.

- 33. (Canceled)
- 34. (Currently Amended) The method of claim 32 further comprising applying megasonics energy to said <u>backside of said</u> wafer while exposing said <u>frontside of said</u> wafer to said cleaning chemicals or etchants.
  - 35. (Canceled)

Application No.: 10/616,093 AMAT Ref. No.: <u>4733 USA D01/TCG/TPG/OTHE</u> Filing Date: July 8, 2003 - 2/12- BSTZ Ref. No.: 004887.P446D

- 36. (Currently Amended) The method of claim 32 further comprising applying megasonics energy to said <u>backside of said</u> wafer while rinsing said <u>frontside of said</u> wafer.
- 37. (Currently Amended) A method of rinsing chemicals or etchants from a wafer comprising:

rotating a wafer having a frontside and a backside;

dispensing cleaning chemicals or etchants onto said <u>frontside of said</u> wafer to form an etchant or chemical covered wafer;

immediately after dispensing said cleaning chemicals or etchants onto said rotating wafer, applying a liquid or vapor having a lower surface tension than water onto said cleaning chemical or etchant covered wafer; and

immediately after applying said liquid or vapor having a lower surface tension than water, dispensing <u>DeIonized (DI)</u> rinse water onto said <u>frontside of said</u> spinning wafer.

- 38. (Currently Amended) The method of claim 37 further comprising heating said <u>DI</u> rinse water prior to dispensing said <u>DI</u> rinse water on said <u>frontside</u> of said wafer.
- 39. (Currently Amended) The method of claim 38 wherein said <u>DI</u> rinse water is heated to a temperature between 60-70°C.
- 40. (Currently Amended) The method of claim 37 further comprise applying megasonics energy to said <u>backside of said</u> wafer while dispensing said <u>DI</u> rinse water onto said <u>frontside of said</u> wafer.

Application No.: 10/616,093 AMAT Ref. No.: <u>4733 USA D01/TCG/TPG/OTHE</u>
Filing Date: July 8, 2003 - 3/12- BSTZ Ref. No.: 004887,P446D

- 41. (Currently Amended) The method of claim 37 further comprising stopping said dispensing of said <u>DI</u> rinse water and spinning said wafer dry.
- 42. (Currently Amended) A method of cleaning or etching a wafer comprising:

placing a wafer <u>having a frontside and a backside</u> on a support over a plate having a plurality of transducers formed thereon, wherein said wafer is horizontally supported and separated by a gap from said plate;

flowing a liquid in said gap between said <u>backside of said</u> wafer and said support;

dispensing chemicals or etchants onto said <u>frontside of said</u> wafer to form a chemical or etchant covered wafer while flowing said liquid in said gap;

after dispensing said chemicals or said etchant, and prior to dispensing DI Delonized (DI) rinse water on said chemical or etchant covered wafer, dispensing a liquid or vapor having a lower surface tension than water onto said chemical or etchant covered wafer; and

after applying said vapor or liquid, dispensing <u>DI</u> rinse water onto said <u>frontside of said</u> spinning wafer.

- 43. (Currently Amended) The method of claim 42 further comprising applying megasonics energy to said <u>backside of said</u> wafer from said transducers while said dispensing of said chemical or said etchant.
- 44. (Currently Amended) The method of claim 42 further comprising heating said <u>DI</u> rinse water prior to applying said <u>DI</u> rinse water onto said <u>frontside</u> of said wafer.

Application No.: 10/616,093 AMAT Ref. No.: <u>4733 USA D01/TCG/TPG/OTHE</u>
Filing Date: July 8, 2003 - 4/12- BSTZ Ref. No.: <u>004887.P446D</u>

- 45. (Currently Amended) The method of claim 44 wherein said <u>DI</u> rinse water is heated to a temperature between 60-70°C.
- 46. (Currently Amended) The method of claim 42 further comprising flowing said liquid into said gap between said <u>backside of said</u> wafer and said support, and applying megasonics energy to said <u>backside of said</u> wafer from said transducer while dispensing said <u>DI</u> rinse water onto said <u>frontside of said</u> wafer.
- 47. (New) The method of claim 32, further comprising after exposing said frontside of said spinning wafer to DI water, blowing a gas at the center of the frontside of said wafer while said wafer is spinning.
- 48. (New) The method of claim 37, further comprising after exposing said frontside of said spinning wafer to DI water, blowing a gas at the center of the frontside of said wafer while said wafer is spinning.
- 49. (New) The method of claim 40, further comprising after exposing said frontside of said spinning wafer to DI water, blowing a gas at the center of the frontside of said wafer while said wafer is spinning.
- 50. (New) The method of claim 42, further comprising after exposing said frontside of said spinning wafer to DI water, blowing a gas at the center of the frontside of said wafer while said wafer is spinning.

Application No.: 10/616,093 AMAT Ref. No.: <u>4733 USA D01/TCG/TPG/OTHE</u> Filing Date: July 8, 2003 - 5/12- BSTZ Ref. No.: 004887.P446D